



Calibratian and Allemant Protesture

- 1. Set the front wantal controls to be following
 - Inoni Control: "Max. CCW"
 - Mode Switch "Linear"
 - Output Compression Switch:
 - +4dBm. +18dBm Switch: +18d
 - Power Switch: "Off"
- Release: 1.5 sec.
- flet the trim controls to the following:
- Compression threshold R46 at maximum clockwise per when viewed from the right hand side of the chaesis.
- Compression Meter Threshold R55 at mid-position.
- Meter Cal. R36 at mid-position.
- Compression Zero set R38 at mid-position
- for test as per Figure 2.
- Set pad for -30dB attenuation using one 20dB position and one 10dB
- Apply a signal of -50dBm (2.4mV) \pm 2dB (1.95mV 3. kmV) at like to the input.
- Adjust input control until output reads +18dBm (6. 2V).
- Adjust Meter Cal centrol R36 such that VU meter reads "8" VU we +18dBm, +4dBm switch is set to +18dBm.
- Reduce Input control until cusput reads -4dBm (0, 49V).
- Adjust R36 Compression to Zero set such that meter reads "0" VU when Output Compression switch is set to "Compression".
- Increase Input control until estput level reads +ldBm (0.87V).
- Set Mede Switch to 4:1 position.
- Adment R44 Threshold Adjustment until output drops to Millia (0. 1919).
- Adjust Compression Motor Threshold Adjustment so that on the 7436 reads =24B at Streehald.

- Adjust input level such that output is +24dBm at 18Hz (12,3V) setting the compression in the "laneer Mode".
- Check to see if frequency response is + 1dB (10.8V 13.7V) from
- Measure % T. H. D. at +24dEm (12.3V) at lkHz. % T. H. D. should be less than 0.5%.
- Reduce input level so that the output level is +idBm (0.87V).
- Set compression in 2:1 mode.
- Switch the 10dB position on the input pad to "Oit" position. The output of the compression should increase 5dB (1.36V) \pm 1.5dB (1.16V 1.64V).
- Switch the 10dB position on the pad back to the "In" position and switch the 20dB position on the pad to the "Out" position. Output level should increase 10dB $\{2,45V\} \pm 3dB \{2,06V-2,91V\}$.
- Increase the input level until the output increases to 20dBm (7.8V0.
- Measure & T. H. D. at 1kHs. % T. H. D. should be less than 1%.
- Switch the 20dB position on the pad to "In" and reduce input level, such that output is +ldBm, in linear mode.
- Set compression in the 4:1 mode.
- Switch the 10dB position on the pad to "Out". Output level should increase to 2, 5dBm (1,05V) + 1dB (0,93V 1, i5V).
- Switch the 10dB position on the pad from "Out" to "In" and switch the 20dB position on the pad "Out". The output level should increase to 5dBm (1.36V) ± 2.0dB (1.1V 1.75V).
- Change Mode Switch from 4:1 to 2:1. Output level should increase from +5dBm (1.36V) + 2.0dB (1.1V 1.75V) to + 1c3Bm (2.45V) + 3dB (2.06V 2.91V). Now switch back from 2:1 to 4:1. Octput level should drop from +10dBm (2.45V) + 3dB (2.06V 2.91V) to +3.5dBm (1.55V) + 1.5dB (1.0V 1.4V) and slowly increase within apprex. 2 seconds back to +5dBm (1.36V) + 2.0dB (1.1V 1.75V) as per Step No. 13.
- Change Release Switch to 0.5 sec. and repeat \$14. This time the output level will drop to $+3.5 \, \mathrm{dBm} \ (1.55 \, \mathrm{V}) + 1.5 \, \mathrm{dB} \ (1.0 \, \mathrm{V} 1.4 \, \mathrm{V})$ and quickly increase within approx. 0.5 secs. back to $+5 \, \mathrm{dBm} \ (1.34 \, \mathrm{V}) + 2.0 \, \mathrm{db} \ (1.1 \, \mathrm{V} 1.75 \, \mathrm{V})$ as per Step \$13.
- 16. Remove the signal from the input and plug-in a 150 chm termination pad.
- Turn input control CCW.
- Set compression in Linear Mode. Measure swise. Should be less than or equal to -52dBm (1.95mV).
- Turn isput control fully CW. Noise should measure less than -43dBea (5.5mV). 19.
- Turn input fully CCW.
- Measure noise in 4:1 mode. Noise should measure less than -46dBm (3.9mV).
- Run 24 hour reliability test.
- At end of reliability test repeat Steps 11 13 in this section.

Test Points - Engineering Only

Contains.

- TP1 should lie between 5.25V + 1.5Vdc for normal operation.
- TP2 is used in the selection of Q₀. Signal level at TP2 should lie below -26dBm with compression set in Linear Mode and the output level at +24dBm at lkHz. When signal is greater than -26dBm TP2 indicates that Q₀ should probably be replaced.

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